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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/616,968	07/11/2003	Keiji Ohama	0020-5156P	2867
2292 75	590 06/17/2004		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			GORDON, RAEANN	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			3711	
			DATE MAILED: 06/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/616,968	OHAMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Raeann Gorden	3711			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a recommunication of the period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 11	<i>July 2003</i> .				
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Th	nis action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-4 is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-4 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and</li> </ul>	awn from consideration.				
Application Papers		·			
9) The specification is objected to by the Examin	ner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the l					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents.</li> <li>2. Certified copies of the priority documents.</li> <li>3. Copies of the certified copies of the priority documents.</li> <li>* See the attached detailed Office action for a list.</li> </ul>	nts have been received.  nts have been received in Application in the control of	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>7-11-03</u> .		atent Application (PTO-152)			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sugimoto (6,390,936). Regarding claims 1 and 2, Sugimoto discloses a golf ball comprising a center, an intermediate layer, and a cover. The intermediate layer has a thickness of 2.5 (table 4). Sugimoto discloses the intermediate layer has a Shore D hardness from 53 to 64 (col. 5, lines 40-43). The hardness of the intermediate layer is higher than the surface of the center (table 4). With respect to the flexural modulus, applicant claims the flex modulus of the intermediate layer is lower than the flex modulus of the cover layer. The intermediate layer has a specific gravity from 1.1 to 1.35. Since the present invention and the Sugimoto disclose identical ingredients for the two layers the flex modulus values would also overlap or be the same. Regarding claim 3, Sugimoto discloses a cover with a Shore D hardness from 45 to 60 (col. 6, lines 62-63). The cover has a thickness from 1.0 to 3.0 mm. Applicant discloses cover materials may be Himilan 1605, 1706, 1855, etc. and Sugimoto discloses the same cover materials, therefore the flexural modulus

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values would be the same. One of ordinary skill in the art would have modified the flex modulus of the intermediate layer to achieve the desired durability of the golf ball.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sugimoto in view of Kato (2003/0064828). Sugimoto discloses the intermediate layer is made from polybutadiene, co-crosslinking agent, organic peroxide and a filler. The co-crosslinking agent may be a metal salt of  $\alpha$ ,  $\beta$ -unsaturated carboxylic acid. Sugimoto does not disclose at least 4 parts by weight of organic peroxide. However, Kato teaches a golf ball comprising an intermediate layer with up to 5.0 parts by weight of organic peroxide (para. 31). One of ordinary skill in the art would have increased the amount of organic peroxide for improved hardness.

## **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raeann Gorden whose telephone number is 703-308-8354. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Vidovich can be reached on 703-308-1513. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/&aéann Gorden Primary Examiner Art Unit 3711

Rg June 14, 2004